

**DESIGN SUMMARY**  
**(Bridge/Culvert Replacement)**

**Figure 7-2A**

\_\_\_\_\_, 20\_\_\_\_

Route: \_\_\_\_\_

Des. No. \_\_\_\_\_

Project No. \_\_\_\_\_

Bridge File: \_\_\_\_\_

Over: \_\_\_\_\_

County: \_\_\_\_\_

Federal Oversight: \_\_\_\_\_

**Location and Project Description**

This project involves the replacement of the subject bridge located about \_\_\_\_\_ km \_\_\_\_\_ of \_\_\_\_\_.

The proposed project will replace the existing structure on essentially the same horizontal and vertical alignment with a bridge featuring modern safety and structural standards. The new structure will be a continuous \_\_\_\_\_ bridge with spans of \_\_\_\_\_ and a clear roadway of \_\_\_\_\_ mm. The project length will be \_\_\_\_\_ m with \_\_\_\_\_ m of incidental construction on the \_\_\_\_\_ end and \_\_\_\_\_ m on the \_\_\_\_\_ end.

(Additional discussion in this area should be limited to significant county road relocations, less than desirable intersection sight distance, underground storage tanks, channel relocation, clearing of wooded/forest areas, significant historical/archaeological considerations, sidewalks and design exceptions.)

**Need for Improvement**

(In this section describe why the bridge is being replaced; i.e., existing structure condition, flooding considerations, substandard geometrics, accidents, etc. Accident history should be discussed in this section whether it is a problem or not.)

Bridge File: \_\_\_\_\_

### **Prior Studies and Considerations**

Categorical Exclusion Approved: \_\_\_\_\_

Additional Information Approved: \_\_\_\_\_

Preliminary Field Check: \_\_\_\_\_

Environmental Review Meeting: \_\_\_\_\_

(List all Permits required for project and date received. If not received yet, list "Pending"): \_\_\_\_\_

The proposed design is consistent with the approved environmental documentation.

### **Design Data**

Project Design Criteria: \_\_\_\_\_

Functional Classification: \_\_\_\_\_

Terrain: \_\_\_\_\_

Design Speed: \_\_\_\_\_

Posted Speed: \_\_\_\_\_

Access Control: \_\_\_\_\_

Number of Lanes and Width: \_\_\_\_\_

Shoulders (Width and Type): \_\_\_\_\_

Maximum Right-of-Way Width: \_\_\_\_\_

Typical Right-of-Way Width: \_\_\_\_\_

Structure Clear Roadway Width: \_\_\_\_\_

### **Traffic Data**

AADT (20\_\_\_\_): \_\_\_\_\_ VPD

AADT (20\_\_\_\_): \_\_\_\_\_ VPD

DHV (20\_\_\_\_): \_\_\_\_\_ VPH

Comm. Veh.: \_\_\_\_\_ %DHV

\_\_\_\_\_ %AADT

### **Description of Right-of-Way**

The proposed project will require an additional \_\_\_\_\_ ha of permanent right-of-way. An additional \_\_\_\_\_ ha of temporary right-of-way will be required for \_\_\_\_\_. (Also list any business or residential relocations.)

Bridge File: \_\_\_\_\_

### **Estimated Costs**

	Year: _____	Year: _____
Preliminary Engineering:	\$ _____	\$ _____
Right-of-Way:	_____	_____
Construction:	_____	_____
Total Cost:	\$ _____	\$ _____

### **Maintenance of Traffic During Construction**

An official detour over State routes would use portions of \_\_\_\_\_ and \_\_\_\_\_, adding \_\_\_\_\_ km to a through trip. Local routes could be used by local traffic adding \_\_\_\_\_ km to a through trip. Delay to emergency and public services would be about \_\_\_\_\_ minutes using the detours. The cost to the public to use the detours would be \$\_\_\_\_\_, assuming \_\_\_\_\_% use the local detour, or \_\_\_\_\_ AADT, during a \_\_\_\_ day detour, and \$\_\_\_\_\_ / km user cost. On the other hand, a temporary bridge and runaround is estimated to cost \$\_\_\_\_\_. A temporary bridge (or pipe) and runaround will be used for this project because the user costs for detours exceed the cost of the temporary runaround. (OR, Traffic will be detoured during construction of this project because it is more economical.)

### **Mitigation Measures**

The following project-specific mitigation measures are required. Woody revegetation will be placed in specific areas. “Do Not Mow or Spray” signs will be posted along the right-of-way. (OR, No woody revegetation will be required. “Do Not Spray” signs will be posted along the right-of-way, if legume seed mixture is used.) (Also, add any other appropriate items; e.g., date restrictions on tree clearing or channel excavation.)

Bridge File: \_\_\_\_\_

**Public Involvement**

No views or opinions other than those of the officials of the highway organizations and the affiliated workers have been expressed in this report. An opportunity for a public hearing will be offered by advertising in local newspapers. Any opinions or comments received by the published deadline will be added to this report. (OR, A public hearing will be scheduled. Any comments received at the public hearing will be added to this report including their resolutions.)

\_\_\_\_\_  
Design Engineer

(Attached to this report would be the field check report and the fish and wildlife meeting report. If this is a final report on a project for which there was a hearing, then the comments from the public hearing and their resolutions would be included in this report.)